Samsung Display Solutions

All-in-One Thin Client Display TC222W / TC242W

Increase business productivity with higher performance and expandability while cutting costs, and increasing security

- **Enable a more secure computing environment by using a virtual desktop infrastructure (VDI)**
- **Offer expandable tools, and a reduced footprint with an all-in-one solution**
- **Increase productivity, efficiency, and performance with AMD's latest embedded G-Series SoC**
- **Promote a healthy computing environment with increased ergonomics**
- **Cut costs and save energy with a low power, energy efficient solution**

Today's enterprise computing environment is changing. As the workforce becomes more mobile and data flows more freely, businesses are increasingly looking for ways to cut costs and protect the security of their data and networks while increasing the flexibility and agility of their working environment. Changing regulations and sophisticated data security threats require businesses to keep pace and continually upgrade their IT resources. ›››

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VIRTUAL DESKTOP INFRASTRUCTURE(VDI) AND THIN CLIENT

Create a cost effective, secure, and powerful computing environment

› › › Samsung's All-in-One Thin Clients help businesses keep up with these changes while cutting costs, and increasing security. Featuring an embedded Advanced Micro Devices, Inc. (AMD) chipset, solid state drive (SSD), and RAM for full PC like functionality, Samsung's All-in-One Thin Clients enable users to access data from a centralized network server. Data is stored on the server, so it always remains secure, and backups are easier and more frequent.

Figure 1. A cost effective, secure and powerful computing environment

Secure valuable data against unauthorized access

Samsung's All-in-One Thin Clients support the Virtual Desktop Infrastructure (VDI) which enables data, information, and software to be stored securely on a centralized network server without a compromise in security or accessibility. Software is deployed via the remote server, enabling maintenance and support activities to be centralized, thus saving time and cutting costs. VDI enables IT professionals to remotely perform regular backups, install software patches, and recover from potential disasters without having to physically be at the workstation.

Figure 2. Safeguarded infrastructure and intellectual property

Since data is stored on a central server, the chances of unauthorized access to the workstation are greatly reduced. This feature diminishes the possibility of viruses or malware spreading between users. Intellectual property is also safeguarded and not at risk of being exposed.

ALL-IN-ONE THIN CLIENT

Promote a clean, productive working environment while saving valuable desk space

Office space is at a premium, and today's box type PC's and connected peripherals take up too much valuable desk space. Samsung's All-in-One Thin Clients are designed to be tidy and efficient while promoting a clean working environment with easy deployment, and simplified assembly. Gone are the days of a space wasting desktop or laptop sitting atop a desk with a mess of cables. Samsung's All-in-One Thin Clients feature a reduced footprint that saves desk space while helping to ensure comfortable use over long periods.

Figure 3. All-in-one design promotes a clean working environment with easy deployment and simplified assembly

Expand your toolset by connecting all your favorite peripherals

Samsung's All-In-One Thin Clients feature a reduced footprint over traditional box type PC's, however, they make no compromises when it comes to connectivity. Most peripherals can be directly connected through the unit's 6 USB ports (USB 3.0 x2, USB 2.0 x4). Audio options such as microphone and line out are included, and multiple screens are supported through the DVI-I port. The 15 pin D-Sub in port allows the user to connect a personal device such as a laptop to the display. A gigabit LAN port rounds out the connectivity options.

An integrated all-in-one design with more efficient energy usage helps businesses save costs. The TC242W consumes only 27W per unit which provides greater savings when compared to a traditional desktop PC. The TC242W is more cost effective than an average household 60W light bulb.

Limits External Data Access
No moving part (ex. Fan)
Various Connectivity
Ergonomic Design
Supports USB Port (6) with High power

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HIGH PERFORMANCE, BETTER SPECS FOR BUSINESS

Enable high performance computing with no compromises

Companies that want to succeed need to provide their employees with the tools they need to get their work done quickly and efficiently. That's why Samsung's All-in-One Thin Clients make no sacrifices when it comes to performance. Powered by AMD's latest embedded G-Series SoCs that couple high performance compute and graphics capability in a highly integrated, low power design. AMD's 2.2 GHz Dual Core Processor improves data transfer rates, and saves space on the motherboard, making it a perfect fit for the compact form factor required by the new TC2 Series.

Increase productivity, efficiency, and performance with industry leading specifications

Samsung's All-in-One Thin Clients feature some of the highest performance internals in the industry, allowing businesses to increase productivity and optimize end-to-end performance. The new TC2 Series feature 4GB of memory and 32GB of solid state storage as a standard option. The increased storage capacity means space is never at a premium, and with no moving parts, solid state storage can deliver exceptionally high data transfer speeds with the utmost reliability.
The new TC2 Series include the same award winning, high quality display panels that businesses have come to expect from Samsung. Available in two sizes, at either 21.5" or 23.6", these Full-HD (1920x1080) displays allow employees to be more productive and efficient in their work.

Eliminate noise and increase reliability with Samsung's near silent Thin Client solutions

In order to promote a clean, quiet workplace, Samsung's All-in-One Thin Clients contain no moving parts. Operation is virtually silent, and with a zero spin fanless design, reliability is greatly increased, reducing costs associated with maintenance and support. The built-in stereo speakers eliminate the need for external speaker configurations.
Connectivity is provided through a wide array of input/output options, allowing for increased customization and expandability.

Figure 4. Near silent zero spin fanless design and built-in speakers

ALL-IN-ONE THIN CLIENT OPTIMIZED FOR BUSINESS

Ensure a comfortable environment with customized ergonomic features

Samsung's All-in-One Thin Clients integrate a variety of ergonomic features to ensure comfortable use over long periods. The Height Adjustable Stand (HAS) allows for a more comfortable and customized work space by allowing the user to increase the monitor's height by up to 100mm (TC222W) to 130mm (TC242W) based on their individual needs.

Tilt, Swivel, and Pivot functions enable users to adjust the monitor's angle based on the type of content they are working with. Tilt allows the user to set the monitor to the perfect angle, providing the most comfortable viewing experience. Swivel allows the user to quickly and easily adjust the monitor horizontally, allowing for easy collaboration in a group environment. Pivot allows the user to change the monitor perspective and rotate the screen up to 90 degrees, making for effective viewing and editing of portrait oriented documents.

Reduce costs by using a reliable All-in-One Thin Client solution

A number of today's businesses don't require employees to use full featured PCs to get their work done. The cost, size, and horsepower of these systems are simply overkill for what's required in these job roles. In addition, security and maintenance concerns make full feature PC systems too expensive for these job functions.

Samsung's All-in-One Thin Clients are the perfect all-in-one solution for businesses that require simpler hardware solutions in the B2B market. With its powerful hardware components and embedded OS, the TC2 Series is perfect for businesses that require low cost content consumption solutions. Cafes, hotels, and airport lounges are an excellent home for Samsung's All-in-One Thin Clients as these businesses require always on, low maintenance kiosk type devices that allow their customer's to surf the web or check email. Schools and offices require devices that allow users to create and edit documents, spreadsheets, and presentations. Samsung's All-in-One Thin Clients can handle these tasks quickly, efficiently, and reliably.

Figure 5. An ergonomic design with tilt, swivel and pivot adjustment capability

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LOWER WORKPLACE POWER CONSUMPTION FOR INCREASED ENERGY SAVINGS

Large businesses don't usually measure power usage for single units as it's normally calculated for dozens, hundreds, or thousands of devices. The energy costs of running hundreds or even thousands of full featured PCs are astronomical. That's where Samsung's All-in-One Thin Clients offer a significant cost saving benefit over traditional PCs.

The TC222W and TC242W consume only 25W and 27W in typical condition(Max 57W) respectively, significantly less than a traditional 60W household light bulb. This energy efficiency translates into significant, measureable cost savings for businesses both in the short term and the long term regardless of whether an organization is using dozens, hundreds, or thousands of desktop devices. While it may be possible to lower power consumption costs of computing environments through the use of displays that consume less power, the cost savings are minimal in comparison to changing from full featured PC environment, to a Samsung All-in-One Thin Client environment.

Figure 6. Low power consumption promotes cost savings for business

SPECIFICATION

			TC222W	TC242W
Client	Processor		AMD GX-222 2.2GHz Dual	AMD GX-222 2.2GHz Dual
	Graphics		AMD Radeon™ R5E	AMD Radeon™ R5E
	Audio		Realtek ALC282	Realtek ALC282
	Memory		DDR3 4GB	DDR3 4GB
	Flash		SSD 32GB	SSD 32GB
	Ethernet		Gigabit Ethernet (10/100/1000 Auto Sensing)	Gigabit Ethernet (10/100/1000 Auto Sensing)
	Wi-Fi		N/A	N/A
	Fan/Fanless		Fanless	Fanless
Software	Supported SW		[OS] Windows Embedded Standard 7 (WES 7 32bit / 64bit) - ServicePack 1 [Client SW] - Microsoft RDP, RemoteFX 7.1 - Citrix Receiver™ 4.2.100	- VMware Horizon Clients 3.3.0 [Others] - Enhanced Write Filter (EWF) - File-Based Write Filter (FBWF) - Internet Explorer 8.0 - Media Player 12.0
	Remote Management		MagicRMS Pro 2.0	
	Certification		VMware Horizon 6 version 6.1.1, Citrix HDX Ready	
Panel	Size		21.5"	23.6"
	Viewable size		21.5"	23.6"
	Panel type		a-Si TFT active matrix	a-Si TFT active matrix
	Aspect ratio		16 : 9	16 : 9
	Pixel pitch (H x V)		0.248 x 0.248 mm	0.2715 x 0.2715 mm
	Brightness (typical)		250 cd/sq.m	300 cd/sq.m
	Contrast ratio (typical)		1000:1	1000:1
	Viewing angle (H/V)		170 / 160 deg (CR≥10)	170 / 160 deg (CR≥10)
	Response time (G to G)		5 ms	5 ms
Frequency	Frequency	Horizontal	31~80 kHz	31~80 kHz
		Vertical	56~75 Hz	56~75 Hz
	Maximum resolution (H x V) (Dual Screen)		1920 x 1080 (1920 x 1200)	1920 x 1080 (1920 x 1200)
	Bandwidth		148.5 MHz	148.5 MHz
	Colors Supported		16.7 million	16.7 million
Signal	Sync. type		(1) Separate H/V, (2) Sync On Green	
	Input / Output		RGB-IN (15 pin D-SUB IN), LAN (RJ45, Gigabit), USB (3.0 x 2EA / 2.0 x 4EA), Headphone OUT, MIC IN, DVI-I OUT	
Speaker	Built-in Speaker		1W x 2	1W x 2
Power	Power-on	Maximum	56W	57W
		Typical	24W	27W
	Stand-by		Less than 2.7W	Less than 2.7W
	Power-adapter		2.3W	2.3W
Cabinet Color	Front		Black	Black
	Back		Black	Black
Dimension	Set, with stand (W x H x D)		504.3 x 335.4 x 210.0 (Min) 504.3 x 435.4 x 210.0 (Max)	554.6 x 380.3 x 224 (Min) 554.6 x 510.3 x 224 (Max)
	Set, without stand (W x H x D)		504.3 x 301.9 x 61.2	554.6 x 330.5 x 61.2
	Packaged (W x H x D)		554.6 x 330.5 x 61.2	626 x 400 x 195
	Stand (W x H X D)		227 x 133.5 x 198	245 x 169.8 x 216
Weight	Net		5.0kg	5.9kg
	Gross		6.0kg	7.4kg
Wall mount			VESA 100 x 100	VESA 100 x 100
Stand	Type	Swivel	-45deg ~ 45deg	-45deg ~ 45deg
		Pivot	0deg ~ 90deg	0deg ~ 90deg
		Tilt	-3deg ~ 25deg	-3deg ~ 25deg
		Height Adjustable	100mm	130mm
OSD	OSD language provided		Korean / Japanese / Chinese / English / German / Spanish / French / Italian / Swedish / Russian / Portuguese / Turkish / Hungarian / Polish	
Accessory (Supplied)	Included in package		(1) User Manual, (2) Power Cord, (3) Quick Setup Guide, (4) Warranty Card	

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For more information

For more information about Samsung All-in-One Thin Client Display TC222W / TC242W, visit www.samsung.com/business or www.samsung.com/displaysolutions.

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2015-10

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